CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 04.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : **Technical Manager (West),** KRIDL, Bangalore.

* Name of the work : Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* Reference : AEE/SSD/PR/65/2016-17 Dated: 02.09.2016

* Sample ID : RCC Drain Bed Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 04.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2016	04.10.2016	8.120	478.3	21.26
2	06.09.2016	04.10.2016	8.290	493.2	21.92
3	06.09.2016	04.10.2016	8.380	510.2	22.68

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 15.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : **Technical Manager (West),** KRIDL, Bangalore.

* Name of the work : Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* Reference : AEE/SSD/PR/65/2016-17 Dated: 02.09.2016

* Sample ID : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 15.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	15.09.2016	8.102	330.8	14.70
2	08.09.2016	15.09.2016	8.229	343.5	15.27
3	08.09.2016	15.09.2016	8.326	350.2	15.56

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 06.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/65/2016-17 Dated: 02.09.2016

*** Sample ID** : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 06.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	06.10.2016	8.189	485.5	21.58
2	08.09.2016	06.10.2016	8.280	498.3	22.15
3	08.09.2016	06.10.2016	8.310	510.2	22.68

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 17.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : **Technical Manager (West),** KRIDL, Bangalore.

* Name of the work : Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* Reference : AEE/SSD/PR/65/2016-17 Dated: 02.09.2016

* Sample ID : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 17.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	17.09.2016	8.273	339.8	15.10
2	10.09.2016	17.09.2016	8.326	348.3	15.48
3	10.09.2016	17.09.2016	8.426	356.3	15.84

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 08.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/65/2016-17 Dated: 02.09.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 08.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	08.10.2016	8.125	478.3	21.26
2	10.09.2016	08.10.2016	8.236	493.2	21.92
3	10.09.2016	08.10.2016	8.382	510.2	22.68

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/65/2016-17 Dated: 02.09.2016

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 17.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	17.09.2016	8.105	328.3	14.59
2	10.09.2016	17.09.2016	8.250	332.3	14.77
3	10.09.2016	17.09.2016	8.336	356.3	15.84

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 08.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/65/2016-17 Dated: 02.09.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 08.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	08.10.2016	8.105	485.5	21.58
2	10.09.2016	08.10.2016	8.192	498.3	22.15
3	10.09.2016	08.10.2016	8.290	510.2	22.68

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/Pre Cast Slab/2016-17 13.09.2016

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

* Name of Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of RCC drain near old Junjappa temple surrounding area & other roads, Mallasandra in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/65/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre Cast Slab
Sample received on	:	08.09.2016
Date of Testing	:	13.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.385	2513.83	1.56	0.955	32.00	16.30	17.60	16.81	21.01
2	50.00	79.00	0.392	2527.14	1.58	0.960	33.00	16.81	18.15	17.43	21.78
3	50.00	80.00	0.402	2559.21	1.60	0.965	33.80	17.21	18.59	17.94	22.43

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